DEC STD 185-1 Requirements for Releasing UNIGRAPHICS Data Bases

DOCUMENT IDENTIFIER: A-DS-EL00185-01-0000 Rev A2, 08-Aug-1991

ABSTRACT: This standard documents the procedure for releasing and processing UNIGRAPHICS-generated data bases. It has been classified as Historical and is not to be used to develop computer media for new products.

APPLICABILITY: This standard has been classified as Historical and does not apply to the release of data bases for new products.

STATUS: Classified Historical 08-Aug-1991.

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APPROVAL: This standard has been classified as Historical.

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1 INTRODUCTION

The UNIGRAPHICS Design Drafting System is used by Engineering Design groups and by Manufacturing to design products and create documentation for release to the Engineering, Documentation, and Manufacturing system.

The UNIGRAPHICS system provided by McAuto, a division of McDonnell Douglas, is either a VAX or an 11-based system and does not presently allow processing of its data base, which are either 10- or 20-based CAD systems. The data to be accepted into the Engineering Documentation System must be capable of being released and handled in the current distribution process. This includes storing, archiving, and distributing microfilm/aperture cards.

It is important to note that there are specific requirements for processing Mechanical Design information through Engineering Services. This is necessary to enable the Engineering Services groups to use the Engineering network for processing UNIGRAPHICS plot files to Computer Output Microfilm (COM).

Design sites may control documents differently. Following are baseline requirements. Individual sites can modify procedures to meet individual needs, provided the baseline requirements are met. The site must document and control its own procedures.

1.1 SCOPE

This document provides a description and a flow chart of the UNIGRAPHICS release process to be used by those involved in the design and development of mechanical parts.

1.2 RESPONSIBILITIES

All ECO/Drafting coordinators, all Design/Drafting groups, and all Engineering design libraries are required to follow this standard.

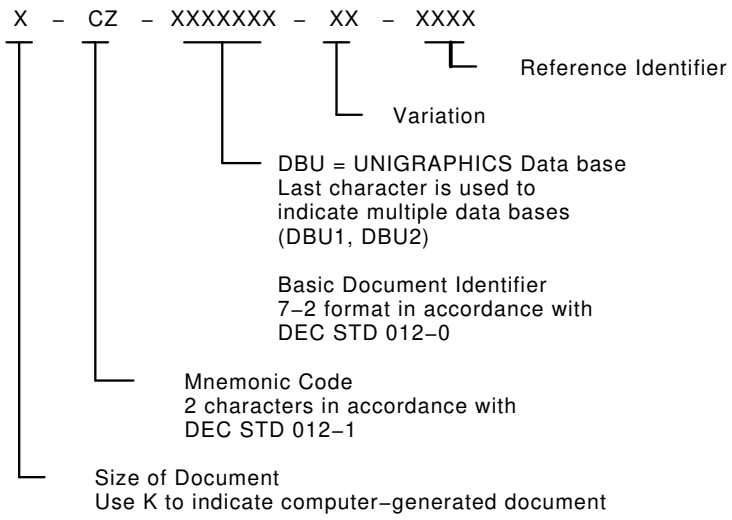
2 DRAWING FORMAT

Each drawing prepared on the UNIGRAPHICS system will meet the same format and quality requirements as the manually prepared equivalent using pre-printed or plotted formats of *DEC STD 013-2 Standard Engineering Drawing Formats and Forms—Pre-printed Special Purpose Formats.*

2.1 DOCUMENT IDENTIFIER

The document identifier in the title block of a UNIGRAPHICS-plotted document will follow the conventions of *DEC STD 185-0 Documentation of Computer Media in the Engineering Documentation System*, and *DEC STD 012-0 Part Identification Standard*, and *DEC STD 012-1 Document Identification Conventions Including Mnemonic Codes*. See Figure 1.

Figure 1: UNIGRAPHICS Document Identifier



2.2 UNIGRAPHICS FILE IDENTIFICATION

The UNIGRAPHICS system uses a 16-character file name that will be assigned according to the following convention.

Document Identifier	K-MD-7412345-67-DBU Rev A
UNIGRAPHICS File Identifier	7412345-67-DBUA.PRT

Document Control, located in Engineering design libraries, requires the complete document identifier at the time of release.

UNIGRAPHICS design drafting groups require the UNIGRAPHICS file number identifier for accessing a file on the UNIGRAPHICS system or for ECOing a file.

Because each UNIGRAPHICS file represents a complete, unique drawing (including all sheets of the document), it must be considered a single data base and be identified accordingly. However, more than one unique part number can be stored on the same tape.

Additional file name examples are the following.

K-UA-877-0-DBU REVA FILE NAME	UA-877-0-DBUA.PRT
K-DD-877-0-DBU RevA	DD-877-0-DBUA.PRT

2.3 RELEASE PACKAGE

The package for initial release and subsequent ECOs to the design site library will require the following.

a. A New Product Release Form or an ECO face sheet (for changes) that lists each Document Identifier. See Figure 2.

b. Two tapes containing the data file: one to be the library master, and one for archiving.

c. One copy of a tape containing multiplot files. Sites can also use the engineering network for plot file release.

2.4 TAPE LABELING

The tape is required to have the following information on an external (paper) label.

a. Processing information
   1. The word "UNIGRAPHICS"
   2. The program and version used to create the tape
   3. The BPI density: 1600 BPI shall be standard
   4. The number of tracks on the tape: 9 shall be standard
   5. The fact that "No Magnetic Labeling Exists"

b. An original directory of all files on each copy of the tape is required. That directory must show that the parts are released.

Figure 3 illustrates an example of a tape label.

3 RELEASE PROCESS

The following process is recommended for releasing new unigraphics data bases, and those that have been changed by an ECO. Figure 4 is a flow chart of the release process. This process is used in the Maynard and Andover libraries. Each site is responsible for either using this process or establishing and documenting a similar one.

3.1 NEW RELEASE

a. The design is completed and signed off by the responsible persons.

   A representative from the design site submits the package to Document Control for release.

b. Document Control checks the package against DOCS to validate the following.
   1. correct descriptions
   2. correct variations
   3. correct document numbers
   4. correct revisions (part number and document number)

   Data inconsistencies are required to be resolved with the drafting group before the design package is accepted as complete.

   Document Control then accepts the package from the drafting coordinator for initial release.

c. The tapes are given to the design site post processor.

   The post processor checks the tape listing sheets, which list the document number, sheet number, and the corresponding files, against the directory on the tape. See Figure 5.

d. The post processor either

   1. mounts the tape on a VAX or an 11-based system, copies the files to disk and then uses the engineering network to send the files to COM,

      or

   2. uses CSL (Central Services Liaison) to send the tape to COM.

      The post processor also notifies Corporate Micrographics that the file is on the way.

e. Document Control gives data base to the design site tape librarian.

   The tape librarian will assign a location to the tape, store one copy as a master in the design site library, and send the other copy to Archive Administration for off-site storage and archiving.

f. Document Control updates DOCS to show that the document is released.

g. Corporate Micrographics receives the file via network or on tape, and processes the file on the COM machine, which plots the file onto film.

   After the file has been processed, Corporate Micrographics notifies the post processor that the file is on film and returns the tape, if applicable.

   Corporate Micrographics sends the completed package of film to Microfilm.

   The master aperture card is stored in the Engineering Microfilm files.

3.2 ECO

a. The ECO Coordinator receives an ECO.

   He/she brings the ECO to the design site library responsible for the documents. A copy of the drawing to make the necessary changes is requested.

   The design site representative determines whether the drawing exists on hardcopy or is stored on tape.

   If the drawing exists on hardcopy, it is pulled immediately and given to the ECO coordinator to process the ECO.

   If the drawing exists on tape, the request will go to the tape library for processing.

b. The data base will be duplicated and given to the ECO coordinator.

   The ECO coordinator refers the job to the responsible drafting group.

   The design/drafting group makes the required changes and returns the revised data base to the ECO coordinator, after approval by the engineer.

   The ECO coordinator then submits the package to Document Control for acceptance and release.

c. Document Control accepts the package from the ECO coordinator.

   Document Control then follows the same procedure as that outlined under subhead 3.1 for New Release procedures.

Figure 2: Sample of New Product Release Form

digital

NEW PRODUCT RELEASE

Product Line _____ Product Manufacturer _____

Charge No. _____ MFG. Plant _____

Work Order No. _____ ☐ Partial ☐ Final

Drawing No.	Var.	Description	No. of Sheets	"7" Number

Drn. By _____ Loc. _____ Ext. _____ Date _____

Chk. By _____ Loc. _____ Ext. _____ Date _____

Des. Eng. _____ Loc. _____ Ext. _____ Date _____

Resp. Eng. _____ Loc. _____ Ext. _____ Date _____

Manufacturing _____ Loc. _____ Ext. _____ Date _____

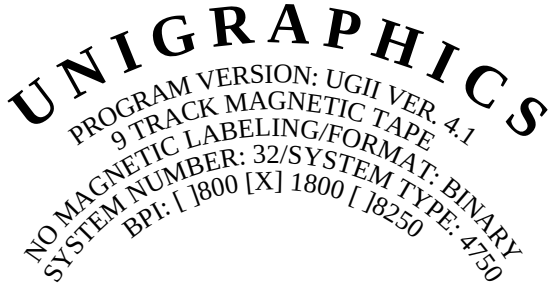
Customer Service _____ Loc. _____ Ext. _____ Date _____

Accepted By _____ Loc. _____ Ext. _____ Date _____
Release Area Rep.

Completed By _____ Loc. _____ Ext. _____ Date _____
Micrographic Rep.

Form # White – Orig. Blue – Micro. Rep. Green – Release Rep. Canary – Resp. Eng. Pine – Manuf. Gold – Design Eng.

Figure 3: Example of a Proper Label for a Released UNIGRAPHICS Data Base


UNIGRAPHICS
PROGRAM VERSION: UGII VER. 4.1
9 TRACK MAGNETIC TAPE
NO MAGNETIC LABELING/FORMAT: BINARY
SYSTEM NUMBER: 32/SYSTEM TYPE: 4750
BPI: [ ]800 [X] 1800 [ ]8250

Example 1: Sample Directory

```
->
->
LIST %29/JAN/88:+.PRT

Root directory: %29/JAN/88

  Name                      form      owner      pclose      length
TC11/84-E-DBUA.PRT          PART     JOSEPH      PUBLIC      61440
->
->
->
->DISMOUNT %29/JAN/88
```

Figure 4: UNIGRAPHICS Release Process Flow Chart

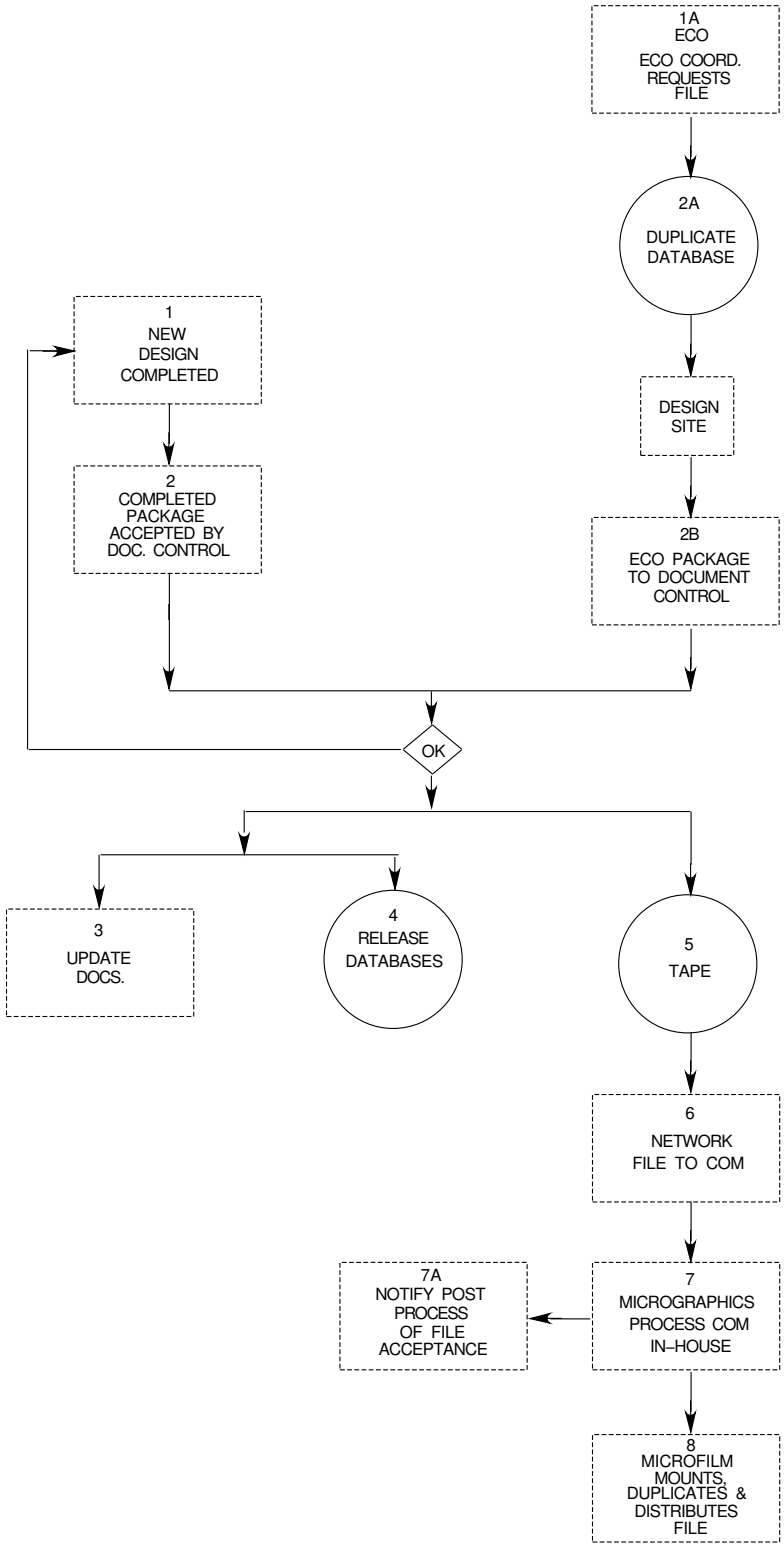


Figure 5: Sample of Multiplot Tape Listing Form

MULTI–PLOT TAPE LISTING

DATE:

DRAWING NUMBER	SHEET NUMBER	FILE NAME

RELEASE PERSON: _____ PHONE NO. _____ MAILSTOP: _____

CHARGE # _____ WORK ORDER # _____

COMMENTS

PCA / ECN ONLY: _____

OF DUPLICARDS REQUIRED: _____

OF HARD COPIES REQUIRED: _____

TAPE CONTROL NO.

FOR LIBRARY USE ONLY

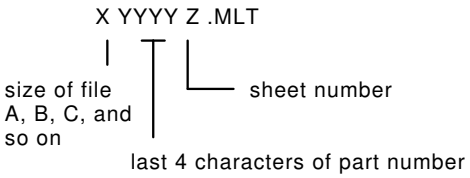
3.3 UNIGRAPHICS to Computer Output Microfilm (COM)

The following information is required by Document Control when processing a release that includes a multiplot tape.

a. Only 1600 BPI is acceptable, and the tape label must include this information. A computer generated directory must also be attached.

b. Different size files on the same tape must be grouped together; that is, "B" size together, "C" size together, and so forth. The order in which sizes appear on the tape is not important; that is, "B" sizes, "E" sizes, then "D" sizes is acceptable. This size grouping is important to ensure accurate image reduction.

c. Multiplot file name must use the following configuration.



Examples -

Document Number	Multiplot File Name(s)
K-IA-7017406-0-DBU	B74061.MLT
2 sheets - B size	B74062.MLT
K-MD-7424935-0-DBU	D49351.MLT
1 sheet - D size	
K-MD-7422680-0-DBU	C26801.MLT
3 sheets - C size	C26802.MLT
	C26803.MLT
TC and DD with the same number:	
K-DD-H941-0-DBU	BDD411.MLT
K-TC-H941-0-DBU	BTC411.MLT

APPENDIX A REFERENCED DOCUMENTS

A.1 EL-Class Digital Documents

EL-Class Number	Document Title
EL-00012-00	*DEC STD 012-0 Part Identification Standard*
EL-00012-01	*DEC STD 012-1 Documentation Identification Conventions Including Mnemonic Codes*
EL-00013-02	*DEC STD 013-2 Standard Engineering Drawing Formats and Forms - Pre-Printed Special Purpose Formats*
EL-00185-00	*DEC STD 185-0 Documentation of Computer Media in the Engineering Documentation System*

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